Author Index

Adamyan, A., *see* Horak, D., 367
Aebischer, P., Goddard, M.B., Sasken, H.F., Hunter, T.J. and Galletti, P.M., Tissue reaction to fabrics coated with turbostratic carbon: subcutaneous *versus* vascular implants, 80
Alaeddinoglu, G., *see*, Aykut, G., 168
Allcock, H.R., Gebura, M., Kwon, S. and Neenan, T.X., Amphiphilic polyphosphazenes as membrane materials: influence of side group on radiation crosslinking, 500
Allcock, H.R., Kwon, S., Riding, G.H., Fitzpatrick, R.J. and Bennett, J.L., Hydrophilic polyphosphazenes as hydrogels: radiation cross-linking and hydrogel characteristics of poly(*bis*(methoxyethoxy) phosphazene), 509
Anderson, J.M., *see* Ziats, N.P., 5
see Umemura, Y., 133
see Spilezewski, K.L., 253
Andrade, J.D., Herron, J., Kopecek, J., Lin, J.N., Yen, H. and Kopeckova, P., On-line sensors for coagulation proteins: concept and progress report, 76
Aoki, T., *see* Yui, N., 225
Appelbaum, J., *see* Uretzky, G, 195
Artursson, P., Johansson, D. and Sjöholm, I., Receptor-mediated uptake of starch and mannan microparticles by macrophages: relative contribution of receptors for complement, immunoglobulins and carbohydrates, 241
Aubin, J.E., *see* Lowenberg, B., 302
Aykut, G., Hasirci, V.N. and Alaeddinoglu, G., Immobilization of yeast cells in acrylamide gel matrix, 168
Babay, D., Hoffman, A. and Benita, S., Design and release kinetic pattern evaluation of indomethacin microspheres intended for oral administration, 482
Bakker, D., van Blitterswijk, C.A., Hesseling, S.C., Grote, J.J. and Daems, W.T., Effect of implantation site on phagocyte/polymer interaction and fibrous capsule formation, 14
Baldassarre, V., *see* Muzzarelli, R., 247
Bantjes, A., *see* Wachem, P.B., 121
see Poot, A., 126
Baquey, A., *see* Caix, J., 62
Baquey, C., *see* Caix, J., 62
see More, N., 328
Barth, E., *see* Voytek, A., 107
Barthe, X., *see* More, N., 328
Battaglia, M.A., *see* Krajewski, A., 528
Behari, J., *see* Ray, S., 192
Benita, S., *see* Babay, D., 482
Bennett, J.L., *see* Allcock, H. R., 509
Berg, R.A. *see* Doillon, C.J., 91
Bertoluzza, A., *see* Krajewski, A., 528
Beugeling, T., *see* van Wachem, P.B., 121
see Poot, A., 126
Beziade, A., *see* Caix, J., 62
Biagini, G., *see* Muzzarelli, R., 247
Bjursten, L.M., *see* Eriksson, A.S., 86
Black, J., 1988 Western Winter Workshop on Tissue Engineering (Conference Report), 379
Boisson, C., Jozefonvicz, J. and Brash, J.L., Adsorption of thrombin from buffer and modified plasma to polystyrene resins containing sulphonate and sulphamide arginyl methyl ester groups, 47
Bouwstra, J.A., *see* Roorda, W.E., 494
Braden, M., *see* Tay, W.M., 454
Brash, J.L., *see* Boisson, C., 47
Breme, J., Steinhäuser, E. and Paulus, G., Commercially pure titanium Steinhäuser plate-screw system for maxillofacial surgery, 310
Brown, H.D., *see* Krouskop, T.A., 398
Brown, S.A., *see* Williams, R.L., 181
Bruin, P., *see* Jonkman, M.F., 263
Brynda, E., *see* Stol, M., 273
see Cifkova, I., 372
Caix, J., Migonney, V., Baquey, A., Fougnot, C., Perrot Minnot, A., Beziade, A., Vuillemin, L., Baquey, C. and Ducassou, D., Control and isotopic quantification of affinity of antithrombin III for heparin-like surfaces, 62
Cambiaso, A., *see* Grattarola, M., 101
Carreno, M.P., *see* Kazatchkine, M.D., 30
Carreno, M.P., Maillet, F., Labarre, D., Jozefowicz, M. and Kazatchkine, M.D., Specific antibodies enhance Sephadex-induced activation of the alternative complement pathway in human serum, 514
Cazenave, J.P., *see* Poot, A., 126
Chern Lin, J.H., *see* Greener, E.H., 213
Cholakis, C.H., *see* Watler, P.K., 150
Christel, P., Perspectives on Biomaterials Materials Science Monographs 33, O.C.C. Lin and E.Y.S. Chao (Book Review), 550
Chung, K.H., *see* Greener, E.H., 213
Cifková, I., *see* Stol, M., 273
Cifková, I., Brynda, E., Mandys, V. and Stol, M., Irritation effects of residual products derived from p(HEMA) gels. II. Compounds extracted from hydrogels, 372
Colombo, P., *see* Conte, U., 489
Conte, U., Colombo, P., Gazzaniga, A., Sangalli, M.E. and La Manna, A., Swelling-activated drug delivery systems, 489
Conti, F., *see* Muzzarelli, R., 247
Cooper, S.L., *see* Pitt, W.G., 383
see Grasel, T.G., 383
Cox, S.W., *see* Eley, B.M., 339
Crocker, J., *see* Gourevitch, D., 97
Daems, W.T., *see* Bakker, D., 14
Dan, V., *see* Horak, D., 367
Davies, J.E., *see* Shelton, R.M., 24
Davis, S.S. and Illum, L., Polymeric microspheres as drug carriers, 111
Davison, C.J., *see* O'Mullane, J.E., 203
de Groot, K., *see* Jansen, J.A., 268
de Vries, M.A., *see* Roorda, W.E., 494
Dekker, A., *see* Wachem, P.B., 121
Denizli, A., Kiremitçi, M. and Pişkin, E., Subcutaneous polymeric matrix system poly(HEMA-BGA) for controlled release of an anticancer drug (5-fluorouracil). I. Synthesis and structure, 257
Denizli, A., Kiremitçi, M. and Pişkin, E., Subcutaneous polymeric matrix system p(HEMA-BGA) for controlled release of an anticancer drug (5-fluorouracil). II: Release kinetics, 363
Doillon, C.J., Wasserman, A.J., Berg, R.A. and Silver, F.H., Behaviour of fibroblasts and epidermal cells cultivated on analogues of extracellular matrix, 91
Downs, M.E.A., Warner, P.J., Fothergill, J.C. and Turner, A.P.F., Optical and electrochemical detection of DNA, 66
Ducassou, D., *see* Caix, J., 62
Dufourcq, J., *see* Dulos, E., 405
Dulos, E., Dufourcq, J., Fougnot, C. and Jozefowicz, M., Adsorption of plasma proteins onto anticoagulant polystyrene derivatives: a fluorescence study, 405
Duval, J.L., Letort, M. and Sigot-Luizard, M.F., Comparative assessment of cell/substratum static adhesion using an *in vitro* organ culture method and computerized analysis system, 155
Eenink, M.J.D., *see* Schakenraad, J.M., 116
Eley, B.M. and Cox, S.W., Influence of a standard laboratory diet containing nutritionally adequate levels of selenium on renal pathology from mercury released by experimental amalgam tattoos, 339
Ericson, L.E., *see* Eriksson, A.S., 86
Eriksson, A.S., Bjursten, L.M., Ericson, L.E. and Thomsen, P., Hollow implants in soft tissues allowing quantitative studies of cells and fluids at the implant interface, 86
Fabre, C., *see* Fauran-Clavel, M.J., 187
Fauran-Clavel, M.J., Lacabanne, C., Fabre, C., Stefenel, M., Oustrin, J. and Lamure, A., Influence of cadmium on the chain dynamics of collagen in rat tail tendon, 187
Feijen, J., *see* Schakenraad, J.M., 116
see van Wachem, P.B., 121
Ferrara, P., *see* Muzzarelli, R., 247
Fitzpatrick, R.J., *see* Allcock, H.R., 509
Flanagan, R.A.W. and Pearson, G.J., Evaluation of dye penetrations around two resin-based materials used as fissure sealants, 460
Fothergill, J.C., *see* Downs, M.E.A., 66
Fouais, F., *see* More, N., 328
Fougnot, C., *see* Caix, J., 62
see Migonney, V., 145
see Migonney, V., 230
see Dulos, E., 405
see Migonney, V., 413
Foulger, C.A., *see* Lydon, M.J., 525
Gacesa, P., *see* Hale, G., 376
Galletti, P.M., *see* Aebischer, P., 80
Gazzanelli, G., *see* Muzzarelli, R., 247
Gazzaniga, A., *see* Conte, U., 489
Gebura, M., *see* Allcock, H.R., 500
Giannetti, G., *see* Grattarola, M., 101
Goddard, M.B., *see* Aebischer, P., 80
Goel, S.C., *see* Prakash, R., 198
Goldman, M., *see* Gourevitch, D., 97
Gourevitch, D., Jones, C.E., Crocker, J. and Goldman, M., Endothelial cell adhesion to vascular prosthetic surfaces, 97
Grasel, T.G., *see* Pitt, W.G., 36
Grasel, T.G., Lee, D.C., Okkema, A.Z., Slowinski, T.J. and Cooper, S.L., Extraction of polyurethane block copolymers: effects on bulk and surface properties and biocompatibility, 383
Grattarola, M., Tedesco, M., Cambiaso, A., Perlo, G., Giannetti, G. and Sanguineti, A., Cell adhesion to silicon substrata: characterization by means of optical and acoustic cytometric techniques, 101
Graves, P.V., *see* Martin, M.T., 519
Gray, K., *see* Krouskop, T.A., 398
Green, M., Isaac, D.H. and Jenkins, G.M., Mineral structure and preferred orientation in the fin bones of the plaice, *Pleuronectes platessa*, 319
Greener, E.H., Chung, K.H., Lin, J.H. and Chern, Lin., Creep in a palladium-enriched high-copper amalgam, 213
Gristina, A.G., *see* Voytek, A., 107
see Oga, M., 285
Groome, N., *see* Stange, U., 58
Grote, J.J., *see* Bakker, D., 14
Gumargalieva, K., *see* Horak, D., 367
Gurny, R., Polymers in Medicine II, Biomedical and Pharmaceutical Applications Polymeric Science and Technology Series Vol. 34, Editors: E. Chiellini, P. Giusti, C. Migliaresi and L. Nicolais (Book Review), 468
Hale, G., Hann, A.C., Wusteman, F.S. and Gacesa, P., Simulation of vascular surfaces: differential saturation with glycosamino glycans and their quantitative analysis, 376
Hanai, T., *see* Kataoka, K., 218
Hann, A.C., *see* Hale, G., 376
Hasirci, V.N., *see* Aykut, G., 168
Hasirci, V.N. and Kamel, I.L., Sustained release of a model macromolecule from

Author Index

Adamyan, A., *see* Horak, D., 367
Aebischer, P., Goddard, M.B., Sasken, H.F., Hunter, T.J. and Galletti, P.M., Tissue reaction to fabrics coated with turbostratic carbon: subcutaneous *versus* vascular implants, 80
Alaeddinoglu, G., *see*, Aykut, G., 168
Allcock, H.R., Gebura, M., Kwon, S. and Neenan, T.X., Amphiphilic polyphosphazenes as membrane materials: influence of side group on radiation crosslinking, 500
Allcock, H.R., Kwon, S., Riding, G.H., Fitzpatrick, R.J. and Bennett, J.L., Hydrophilic polyphosphazenes as hydrogels: radiation cross-linking and hydrogel characteristics of poly(*bis*(methoxyethoxy) phosphazene), 509
Anderson, J.M., *see* Ziats, N.P., 5
see Umemura, Y., 133
see Spilezewski, K.L., 253
Andrade, J.D., Herron, J., Kopecek, J., Lin, J.N., Yen, H. and Kopeckova, P., On-line sensors for coagulation proteins: concept and progress report, 76
Aoki, T., *see* Yui, N., 225
Appelbaum, J., *see* Uretzky, G, 195
Artursson, P., Johansson, D. and Sjöholm, I., Receptor-mediated uptake of starch and mannan microparticles by macrophages: relative contribution of receptors for complement, immunoglobulins and carbohydrates, 241
Aubin, J.E., *see* Lowenberg, B., 302
Aykut, G., Hasirci, V.N. and Alaeddinoglu, G., Immobilization of yeast cells in acrylamide gel matrix, 168
Babay, D., Hoffman, A. and Benita, S., Design and release kinetic pattern evaluation of indomethacin microspheres intended for oral administration, 482
Bakker, D., van Blitterswijk, C.A., Hesseling, S.C., Grote, J.J. and Daems, W.T., Effect of implantation site on phagocyte/polymer interaction and fibrous capsule formation, 14
Baldassarre, V., *see* Muzzarelli, R., 247
Bantjes, A., *see* Wachem, P.B., 121
see Poot, A., 126
Baquey, A., *see* Caix, J., 62
Baquey, C., *see* Caix, J., 62
see More, N., 328
Barth, E., *see* Voytek, A., 107
Barthe, X., *see* More, N., 328
Battaglia, M.A., *see* Krajewski, A., 528
Behari, J., *see* Ray, S., 192
Benita, S., *see* Babay, D., 482
Bennett, J.L., *see* Allcock, H. R., 509
Berg, R.A. *see* Doillon, C.J., 91
Bertoluzza, A., *see* Krajewski, A., 528
Beugeling, T., *see* van Wachem, P.B., 121
see Poot, A., 126
Beziade, A., *see* Caix, J., 62
Biagini, G., *see* Muzzarelli, R., 247
Bjursten, L.M., *see* Eriksson, A.S., 86
Black, J., 1988 Western Winter Workshop on Tissue Engineering (Conference Report), 379
Boisson, C., Jozefonvicz, J. and Brash, J.L., Adsorption of thrombin from buffer and modified plasma to polystyrene resins containing sulphonate and sulphamide arginyl methyl ester groups, 47
Bouwstra, J.A., *see* Roorda, W.E., 494
Braden, M., *see* Tay, W.M., 454
Brash, J.L., *see* Boisson, C., 47
Breme, J., Steinhäuser, E. and Paulus, G., Commercially pure titanium Steinhäuser plate-screw system for maxillofacial surgery, 310
Brown, H.D., *see* Krouskop, T.A., 398
Brown, S.A., *see* Williams, R.L., 181
Bruin, P., *see* Jonkman, M.F., 263
Brynda, E., *see* Stol, M., 273
see Cifkova, I., 372
Caix, J., Migonney, V., Baquey, A., Fougnot, C., Perrot Minnot, A., Beziade, A., Vuillemin, L., Baquey, C. and Ducassou, D., Control and isotopic quantification of affinity of antithrombin III for heparin-like surfaces, 62
Cambiaso, A., *see* Grattarola, M., 101
Carreno, M.P., *see* Kazatchkine, M.D., 30
Carreno, M.P., Maillet, F., Labarre, D., Jozefowicz, M. and Kazatchkine, M.D., Specific antibodies enhance Sephadex-induced activation of the alternative complement pathway in human serum, 514
Cazenave, J.P., *see* Poot, A., 126
Chern Lin, J.H., *see* Greener, E.H., 213
Cholakis, C.H., *see* Watler, P.K., 150
Christel, P., Perspectives on Biomaterials Materials Science Monographs 33, O.C.C. Lin and E.Y.S. Chao (Book Review), 550
Chung, K.H., *see* Greener, E.H., 213
Cifková, I., *see* Stol, M., 273
Cifková, I., Brynda, E., Mandys, V. and Stol, M., Irritation effects of residual products derived from p(HEMA) gels. II. Compounds extracted from hydrogels, 372
Colombo, P., *see* Conte, U., 489
Conte, U., Colombo, P., Gazzaniga, A., Sangalli, M.E. and La Manna, A., Swelling-activated drug delivery systems, 489
Conti, F., *see* Muzzarelli, R., 247
Cooper, S.L., *see* Pitt, W.G., 383
see Grasel, T.G., 383
Cox, S.W., *see* Eley, B.M., 339
Crocker, J., *see* Gourevitch, D., 97
Daems, W.T., *see* Bakker, D., 14
Dan, V., *see* Horak, D., 367
Davies, J.E., *see* Shelton, R.M., 24
Davis, S.S. and Illum, L., Polymeric microspheres as drug carriers, 111
Davison, C.J., *see* O'Mullane, J.E., 203
de Groot, K., *see* Jansen, J.A., 268
de Vries, M.A., *see* Roorda, W.E., 494
Dekker, A., *see* Wachem, P.B., 121
Denizli, A., Kiremitçi, M. and Pişkin, E., Subcutaneous polymeric matrix system poly(HEMA-BGA) for controlled release of an anticancer drug (5-fluorouracil). I. Synthesis and structure, 257
Denizli, A., Kiremitçi, M. and Pişkin, E., Subcutaneous polymeric matrix system p(HEMA-BGA) for controlled release of an anticancer drug (5-fluorouracil). II: Release kinetics, 363
Doillon, C.J., Wasserman, A.J., Berg, R.A. and Silver, F.H., Behaviour of fibroblasts and epidermal cells cultivated on analogues of extracellular matrix, 91
Downs, M.E.A., Warner, P.J., Fothergill, J.C. and Turner, A.P.F., Optical and electrochemical detection of DNA, 66
Ducassou, D., *see* Caix, J., 62
Dufourcq, J., *see* Dulos, E., 405
Dulos, E., Dufourcq, J., Fougnot, C. and Jozefowicz, M., Adsorption of plasma proteins onto anticoagulant polystyrene derivatives: a fluorescence study, 405
Duval, J.L., Letort, M. and Sigot-Luizard, M.F., Comparative assessment of cell/substratum static adhesion using an *in vitro* organ culture method and computerized analysis system, 155
Eenink, M.J.D., *see* Schakenraad, J.M., 116
Eley, B.M. and Cox, S.W., Influence of a standard laboratory diet containing nutritionally adequate levels of selenium on renal pathology from mercury released by experimental amalgam tattoos, 339
Ericson, L.E., *see* Eriksson, A.S., 86
Eriksson, A.S., Bjursten, L.M., Ericson, L.E. and Thomsen, P., Hollow implants in soft tissues allowing quantitative studies of cells and fluids at the implant interface, 86
Fabre, C., *see* Fauran-Clavel, M.J., 187
Fauran-Clavel, M.J., Lacabanne, C., Fabre, C., Stefenel, M., Oustrin, J. and Lamure, A., Influence of cadmium on the chain dynamics of collagen in rat tail tendon, 187
Feijen, J., *see* Schakenraad, J.M., 116
see van Wachem, P.B., 121
Ferrara, P., *see* Muzzarelli, R., 247
Fitzpatrick, R.J., *see* Allcock, H.R., 509
Flanagan, R.A.W. and Pearson, G.J., Evaluation of dye penetrations around two resin-based materials used as fissure sealants, 460
Fothergill, J.C., *see* Downs, M.E.A., 66
Fouais, F., *see* More, N., 328
Fougnot, C., *see* Caix, J., 62
see Migonney, V., 145
see Migonney, V., 230
see Dulos, E., 405
see Migonney, V., 413
Foulger, C.A., *see* Lydon, M.J., 525
Gacesa, P., *see* Hale, G., 376
Galletti, P.M., *see* Aebischer, P., 80
Gazzanelli, G., *see* Muzzarelli, R., 247
Gazzaniga, A., *see* Conte, U., 489
Gebura, M., *see* Allcock, H.R., 500
Giannetti, G., *see* Grattarola, M., 101
Goddard, M.B., *see* Aebischer, P., 80
Goel, S.C., *see* Prakash, R., 198
Goldman, M., *see* Gourevitch, D., 97
Gourevitch, D., Jones, C.E., Crocker, J. and Goldman, M., Endothelial cell adhesion to vascular prosthetic surfaces, 97
Grasel, T.G., *see* Pitt, W.G., 36
Grasel, T.G., Lee, D.C., Okkema, A.Z., Slowinski, T.J. and Cooper, S.L., Extraction of polyurethane block copolymers: effects on bulk and surface properties and biocompatibility, 383
Grattarola, M., Tedesco, M., Cambiaso, A., Perlo, G., Giannetti, G. and Sanguineti, A., Cell adhesion to silicon substrata: characterization by means of optical and acoustic cytometric techniques, 101
Graves, P.V., *see* Martin, M.T., 519
Gray, K., *see* Krouskop, T.A., 398
Green, M., Isaac, D.H. and Jenkins, G.M., Mineral structure and preferred orientation in the fin bones of the plaice, *Pleuronectes platessa*, 319
Greener, E.H., Chung, K.H., Lin, J.H. and Chern, Lin., Creep in a palladium-enriched high-copper amalgam, 213
Gristina, A.G., *see* Voytek, A., 107
see Oga, M., 285
Groome, N., *see* Stange, U., 58
Grote, J.J., *see* Bakker, D., 14
Gumargalieva, K., *see* Horak, D., 367
Gurny, R., Polymers in Medicine II, Biomedical and Pharmaceutical Applications Polymeric Science and Technology Series Vol. 34, Editors: E. Chiellini, P. Giusti, C. Migliaresi and L. Nicolais (Book Review), 468
Hale, G., Hann, A.C., Wusteman, F.S. and Gacesa, P., Simulation of vascular surfaces: differential saturation with glycosamino glycans and their quantitative analysis, 376
Hanai, T., *see* Kataoka, K., 218
Hann, A.C., *see* Hale, G., 376
Hasirci, V.N., *see* Aykut, G., 168
Hasirci, V.N. and Kamel, I.L., Sustained release of a model macromolecule from

preparations with erodible core, 424
Hattab, F.N., Lindén, L.Å. and Lockowandt, P., Permeability of amalgam restorative materials, 533
Heatley, F.W., *see* Revell, W.J., 173
Hennebert, P., Solubility and diffusion coefficients of gaseous formaldehyde in polymers, 162
Herron, J., *see* Andrade, J.D., 76
Hertweck, S.P., von Fraunhofer, J.A. and Masterson, B.J., Tensile characteristics of PTFE sutures, 457
Hesseling, S.C., *see* Bakker, D., 14
Hobgood, C.D., *see* Oga, M., 285
Hoeksma, E.A., van der Lei, B. and Jonkman, M.F., Sudan black B as a histological stain for polymeric biomaterials embedded in glycol methacrylate, 463
Hoenich, N.A., *see* Woffindin, C., 53
Hoffman, A., *see* Babay, D., 482
Hook, M., *see* Voytek, A., 107
Horak, D., Svec, F., Kálal, J., Adamyan, A., Skuba, N., Titova, M., Dan, V., Varava, B., Trostenyuk, N. and Voronkova, O., Gumargalieva, K. and Timochins, V., Hydrogels in endovascular embolization. IV. Effect of radiopaque spherical particles on the living tissue, 367
Howie, D.W. and Vernon-Roberts, B., Synovial macrophage response to aluminium oxide ceramic and cobalt–chrome alloy wear particles in rats, 442
Hunter, T.J., *see* Aebischer, P., 80
Huskey, R.A., *see* Umemura, Y., 133
Hutchins, M.G., *see* Stange, U., 58
Ikada, Y., *see* Tabata, Y., 356
Illum, L., *see* Davis, S.S., 111
Imanishi, Y., *see* Ito, Y., 235
see Kang, I.K., 138, 349
Isaac, D.H., *see* Green, M., 319
Ito, Y., *see* Kang, I.K., 138, 349
Ito, Y., Imanishi, Y. and Sisdo, M., *In vitro* platelet adhesion and *in vivo* antithrombogenicity of heparinized polyetherurethaneureas, 235
Jacobsson, M., *see* Kalebo, P., 295
Jansen, J.A. and de Groot, K., Guinea pig and rabbit model for the histological evaluation of permanent percutaneous implants, 268
Jayabalan, M., *see* Nair, P.D., 335
Jenkins, G.M., *see* Green, M., 319
Johansson, D., *see* Artursson, P., 241
Johnell, O., *see* Lindberg, L.R., 547
Jones, C.E., *see* Gourevitch, D., 97
Jonkman, M.F., *see* Hoeksma, E.A., 463
Jonkman, M.F., Molenaar, I., Nieuwenhuis, P., Bruin, P. and Pennings, A.J., New method to assess water vapour permeance of wound coverings, 263
Jozefonvicz, J., *see* Boisson, C., 47
Jozefowicz, M., *see* Carreno, M.P., 514
see Dulos, E., 405
see Migonney, V., 145, 230, 413
Junginger, H.E., *see* Roorda, W.E., 494
Kálal, J., *see* Horak, D., 367
Kälebo, P. and Jacobsson, M., Recurrent bone regeneration in titanium implants. Experimental model for determining the healing capacity of bone using quantitative microradiography, 295
Kamel, I.L., *see* Hasirci, V.N., 424
Kang, I.K., Ito, Y., Sisido, M. and Imanishi, Y., Adsorption of plasma proteins and platelet adhesion on to polydimethylsiloxane/poly(γ-benzyl L-glutamate) block copolymer films, 138
Kang, I.K., Ito, Y., Sisido, M. and Imanishi, Y., Gas permeability of the film of block and graft copolymers of polydimethylsiloxane and poly(γ-benzyl L-glutamate), 349
Kataoka, K., *see* Maruyama, A., 18
see Yui, N., 225
Kataoka, K., Sakurai, Y., Hanai, T., Maruyama, A. and Tsuruta, T., Immunoaffinity chromatography of lymphocyte subpopulations using tert-amine derived matrices with adsorbed antibodies, 218
Kazatchkine, M.D., *see* Carreno, M.P., 514
Kazatchkine, M.D. and Carreno, M.P., Activation of the complement system at the interface between blood and artificial surfaces, 30
Kiremitçi, M., *see* Denizli, A., 257, 363
Kopecek, J., *see* Andrade, J.D., 76
Kopeckova, P., *see* Andrade, J.D., 76
Krajewski, A. and Ravaglioli, A., Interpretation of difficulties in the initial adhesion of bio-active glasses to bone, 449
Krajewski, A., Ravaglioli, A., Bertoluzza, A., Monti, P., Battaglia, M.A., Pizzoferrato, A., Olmi, R. and Moroni, A., Structural modifications and biological compatibility of doped bio-active glasses, 528
Krouskop, T.A., Brown, H.D., Gray, K., Shively, J., Romovacek, G.R., Spira, M. and Runyan, R.S., Bacterial challenge study of a porous carbon percutaneous implant, 398
Kusy, R.P., *see* Whitley, J.Q., 538
Kwon, S., *see* Allcock, H.R., 500, 509
La Manna, A., *see* Conte, U., 489
Labarre, D., *see* Carreno, M.P., 514
Lacabanne, C., *see* Fauran-Clavel, M.J., 187
Lamure, A., *see* Fauran-Clavel, M.J., 187
Langer, R.S., Surfaces of Biomaterials/Biotechnology (Editorial), 3
Lausmaa, L. and Linder, L., Surface spectroscopic characterization of titanium implants after separation from plastic-embedded tissue, 277
Lee, D.C., *see* Grasel, T.G., 383
Lefebvre, F., *see* Martin, M.T., 519
Letort, M., *see* Duval, J.L., 155
Levy, R.J., *see* Tsaco, J.W., 393
Lewis, D. and Whateley, T.L., Adsorption of enzymes at the solid–liquid interface. I. Trypsin on polystyrene latex, 71
Lin, J.N., *see* Andrade, J.D., 76
Lindberg, L.R., Johnell, O. and Linder, L., Reactions in rat gluteal muscle to titanium implants, 547
Lindén, L.Å., *see* Hattab, F.N., 533
Linder, L., *see* Lausmaa, L., 277
see Lindberg, L.R., 547
Llanos, G. and Sefton, M.V., Immobilization of prostaglandin PGF_2 on poly(vinyl alcohol), 429
Lockowandt, P., *see* Hattab, F.N., 533
Lowenberg, B.F., Pilliar, R.M., Aubin, J.E., Sodek, J. and Melcher, A.H., Cell attachment of human gingival fibroblasts *in vitro* to porous-surfaced titanium alloy discs coated with collagen and platelet-derived growth factor, 302
Lutton, P., Materials' Technology and Profit (Conference Report), 290
Lydon, M.J. and Foulger, C.A., Cell–substratum interactions: serum spreading factor, 525
Maillet, F., *see* Carreno, M.P., 514
Mallens, B.W.L., *see* van Wachem, P.B., 121
Mandys, V., *see* Cifkova, I., 372
Marchand, A., *see* More, N., 328
Martin, M.T., Lefebvre, F., Graves, P.V. and Rabaud, M., Biochemical study of adduct synthesis between fibrin monomers and elastin, 519
Maruyama, A., *see* Kataoka, K., 218
Maruyama, A., Tsuruta, T., Kataoka, K. and Sakurai, Y., Quantitative evaluation of rat lymphocyte adsorption on microdomain structured surfaces of poly(2-hydroxyethyl methacrylate)/polyamine, 471
Marwal, S., *see* Prakash, R., 198
Mason, E.A. and Williams, D.F., SERC Workshop on The Development of Diagnostic Equipment for use in Medicine (Conference Report), 550
Mason, E.A. and Williams, D.F., SERC Workshop on The Development of Orthopaedic Implants for use in Medicine (Conference Report), 466
Masterson, B.J. *see* Hertweck, S.P., 457
see von Fraunhofer, J.A., 281, 324
Melcher, A.H., *see* Lowenberg, B.F., 302
Merritt, K., *see* Williams, R.L., 181
Migonney, V., *see* Caix, J., 62
Migonney, V., Fougnot, C. and Jozefowicz, M., Heparin-like tubings. I. Preparation, characterization and biological *in vitro* activity assessment, 145
Migonney, V., Fougnot, C. and Jozefowicz, M., Heparin-like tubings. II. Mechanism of the thrombin antithrombin III reaction at the surface, 230
Migonney, V., Fougnot, C. and Jozefowicz, M., Heparin like tubings. III. Kinetics and mechanism of thrombin, antithrombin III and thrombin–antithrombin complex adsorption under controlled-flow conditions, 413
Mikos, A.G. and Peppas, N.A., Flory interaction parameter χ for hydrophilic copolymers with water, 419
Miller, K.M., *see* Ziats, N.P., 5
Molenaar, I., *see* Jonkman, 263
see Schakenraad, J.M., 116
Monti, P., *see* Krajewski, A., 528
More, N., Baquey, C., Barthe, X., Fouais, F., Rivel, J., Trinquecoste, M. and Marchand, A., Biocompatibility of carbon–carbon materials: *in vivo* study of their erosion using ^{14}carbon labelled samples, 328
Moroni, A., *see*, Krajewski, A., 528
Muzzarelli, R., Baldassarre, V., Conti, F., Gazzanelli, G., Vasi, V., Ferrara, P. and Biagini, G., Biological activity of chitosan: ultrastructural study, 247
Myrvik, Q.N., *see* Oga, M., 285
see Voytek, A., 107
Nair, P.D., Sreenivasan, K. and Jayabalan, M., Multiple gamma radiation sterilization of polyester fibres, 335
Neenan, T.X., *see* Allcock, H.R., 500
Nicholais, L., Advances in Biomaterials. Editor: S.M. Lee, (Book Review), 468
Nieuwenhuis, P., *see* Jonkman, M.F., 263
see Schakenraad, J.M., 116
O'Mullane, J.E., Davison, C.J., Petrak, K. and Tomlinson, E., Adsorption of fibrinogen on to polystyrene latex coated with the non-ionic surfactant, poloxamer 338, 203
Oga, M., Sugioka, Y., Hobgood, C.D., Myrvik, Q.N. and Gristina, A.G., Surgical biomaterials and differential colonization by *Staphylococcus epidermidis*, 285
Ogata, N., *see* Yui, N., 225
Ohmae, H., *see* Okazaki, M., 345
Okazaki, M. and Ohmae, H., Mechanical and biological properties of apatite composite resins, 345
Okkema, A.Z., *see* Grasel, T.G., 383
Olijslager, J., *see* Schakenraad, J.M., 116
Olmi, R., *see* Krajewski, A., 528
Oosterbann, J.A., *see* Schakenraad, J.M., 116
Oustrin, J., *see* Fauran-Clavel, M.J., 187
Park, K., Enzyme-digestible swelling hydrogels as platforms for long term oral drug delivery: synthesis and characterization. 435
Paulus, G., *see* Breme, J., 310
Pearson, G.J., *see* Flanagan, R.A.W., 460

Pennings, A.J., *see* Jonkman, M.F., 263
Peppas, N.A., *see* Mikos, A.G., 419
Peppas, N.A., Handbook of Materials Evaluation. Editor: Andreas F. von Recum (Book Review), 550
Perlo, G., *see* Grattarola, M., 101
Perrot Minnot, A., *see* Caix, J., 62
Petrak, K., *see* O'Mullane, J.E., 203
Pilliar, R.M., *see* Lowenberg, B.F., 302
Piskin, E., *see* Denizli, A., 257, 363
Pitt, W.G., Grasel, T.G. and Cooper, S.L., Albumin adsorption of alkyl chain derivatized polyurethanes. II. The effect of alkyl chain length, 36
Pizzoferrato, A., *see* Krajewski, A., 528
Pizzoferrato, A., Ciapetti, G., Savarino, L., Stea, S. and Tarabusi, C., Results of histological grading on 100 cases of hip prosthesis failure, 314
Poot, A., Beugeling, T., Cazenave, J.P., Bantjes, A. and van Aken, W.G., Platelet deposition in a capillary perfusion model: quantitative and morphological aspects, 126
Potman, W., *see* Schakenraad, J.M., 116
Prakash, R., Marwal, S., Goel, S.C. and Tuli, S.M., Carbon fibre reinforced epoxy implants for bridging large osteoperiosteal gaps, 198
Rabaud, M., *see* Martin, M.T., 519
Rasmussen, A.C., *see* Shelton, R.M., 24
Ravaglioli, A., *see* Krajewski, A., 449, 528
Ravaglioli, A., Ceramics in Clinical Applications Materials Science Monographs 39, Editor: P. Vincenzini (Book Review), 550
Ray, S. and Behari, J., Electrical parameters of bone substrate in microstrip line configuration, 192
Revell, W.J. and Heatley, F.W., Functional restoration of an articular surface using a heterotopic xenograft: biology of host–implant interactions in the canine patella, 173
Riding, G.H., *see* Allcock, H.R., 509
Rivel, J., *see* More, N., 328
Romovacek, G.R., *see* Krouskop, T.A., 398
Roorda, W.E., Bouwstra, J.A., de Vries, M.A. and Junginger, H.E., Thermal analysis of water in p(HEMA) hydrogels, 494
Runyan, R.S., *see* Krouskop, T.A., 398
Sakurai, Y., *see* Kataoka, K., 218
see Maruyama, A., 18
see Yui, N., 225
Sallis, J.D., *see* Tsaco, J.W., 393
Sangalli, M.E., *see* Conte, U., 489
Sanguineti, A., *see* Grattarola, M., 101
Sanui, K., *see* Yui, N., 225
Sasken, H.F., *see* Aebischer, P., 80
Savarino, L., *see* Pizzoferrato, A., 314
Schaap, R.N., *see* Spilezewski, K.L., 253
Schakenraad, J.M., Oosterbann, J.A., Nieuwenhuis, P., Molenaar, I., Olijslager, J., Potman, W., Eenink, M.J.D. and Feijen, J., Biodegradable hollow fibres for the controlled release of drugs, 116
Schoen, F.J., *see* Tsaco, J.W., 393
Sefton, M.V., *see* Llanos, G., 429
see Watler, P.K., 150
Sefton, M.V., Bio-Incompatibility and Dialysis, Vol 62 of Contributions to Nephology Editors: M.E. De Broe, M. Foret, M.D. Kazatchkine and G. Laurent Series Editors: G.M. Berlyne and S. Giovannetti (Book Review), 467
Sefton, M.V., Biomaterials and Clinical Applications, Vol 6 of Advances in Biomaterials, Editors: A. Pizzoferrato, P.G. Marchetti, A. Ravaglioli and A.J.C. Lee (Book Review), 467
Sela, J., *see* Uretzky, G., 195
Shankar, R., *see* Tsaco, J.W., 393
Shelton, R.M., Rasmussen, A.C. and Davies, J.E., Protein adsorption at the interface between charged polymer substrata and migrating osteoblasts, 24
Shively, J., *see* Krouskop, T.A., 398
Sigot-Luizard, M.F., *see* Duval, J.L., 155
Silver, F.H., *see* Doillon, C.J., 91
Sisido, M., *see* Ito, Y., 235
see Kang, I.K., 138, 349
Sjöholm, I., *see* Artursson, P., 241
Skuba, N., *see* Horak, D., 367
Slowinski, T.J., *see* Grasel, T.G., 383
Sodek, J., *see* Lowenberg, B.F., 302
Solomon, D.D., *see* Spilezewski, K.L., 253
Speziale, P., *see* Voytek, A., 107
Spilezewski, K.L., Anderson, J.M., Schaap, R.N. and Solomon, D.D., *In vivo* biocompatibility of catheter materials, 253
Spira, M., *see* Krouskop, T.A., 398
Sreenivasan, K., *see* Nair, P.D., 335
Stange, U., Groome, N., Tarassenko, L. and Hutchins, M.G., Quantitative analysis of immunological reactions on silicon surfaces by multiple-angle Brewster angle reflectometry, 58
Stea, S., *see* Pizzoferrato, A., 314
Stefenel, M., *see* Fauran-Clavel, M.J., 187
Steinhauser, E., *see* Breme, J., 310
Štol, M., *see* Cifková, I., 372
Štol, M., Cifková, I and Brynda, E., Irritation effects of residuals derived from poly(2-hydroxyethyl methacrylate) gels. I. Testing of some model compounds, 273
Storey, R.J., *see* von Fraunhofer, J.A., 281, 324
Sugioka, Y., *see* Oga, M., 285
Svec, F., *see* Horak, D., 367
Switalski, L., *see* Voytek, A., 107
Tabata, Y. and Ikada, Y., Effect of the size and surface charge of polymer microspheres on their phagocytosis by macrophage, 356
Tarabusi, C., *see* Pizzoferrato, A., 314
Tarassenko, L., *see* Stange, U., 58
Tay, W.M. and Braden, M., Fluoride ion diffusion from polyalkenoate (glass–ionomer) cements, 454
Tedesco, M., *see* Grattarola, M., 101
Thomsen, P., *see* Eriksson, A.S., 86
Timochina, V., *see* Horak, D., 367
Titova, M., *see* Horak, D., 367
Tomlinson, E., *see* O'Mullane, J.E., 203
Trinquecoste, M., *see* More, N., 328
Trostenyuk, N., *see* Horak, D., 367
Tsaco, J.W., Schoen, F.J., Shankar, R., Sallis, J.D. and Levy, R.J., Retardation of calcification of bovine pericardium used in bioprosthetic heart valves by phosphocitrate and a synthetic analogue, 393
Tsuruta, T., *see* Kataoka, K., 218
see Maruyama, A., 18
Tuli, S.M., *see* Prakash, R., 198
Turner, A.P.F., *see* Downs, M.E.A., 66
Umemura, Y., Huskey, R.A. and Anderson, J.M., Human platelet interactions with surfaces of type I collagen, chondroitin-4.sulphate, and chondroitin-6-sulphate *in vitro*, 133
Uretzky, G., Appelbaum, J. and Sela, J., Inhibition of the inductive activity of demineralized bone matrix by different percutaneous implants, 195
van Aken, W.G., *see* Poot, A., 126
see van Wachem, P.B., 121
van Blitterswijk, C.A., *see* Bakker, D., 14
van der Lei, B., *see* Hoeksma, E.A., 463
van Wachem, P.B., Beugeling, T., Mallens, B.W.L., Dekker, A., Feijen, J., Bantjes, A. and van Aken, W.G., Deposition of endothelial fibronectin on polymeric surfaces, 121
Varava, B., *see* Horak, D., 367
Vasi, V., *see* Muzzarelli, R., 247
Vernon-Roberts, B., *see* Howie, D.W., 442
von Fraunhofer, J.A., *see* Hertweck, S.P., 457
von Fraunhofer, J.A., Storey, R.J. and Masterton, B.J., Characterization of surgical needles, 281
von Fraunhofer, J.A., Storey, R.J. and Masterton, B.J., Tensile properties of suture materials, 324
Voronkova *et al.*, O., *see* Horak, D., 367
Voytek, A., Gristina, A.G., Barth, E., Myrvik, Q., Switalski, L., Speziale, P. and Hook, M., Staphylococcal adhesion to collagen in intra-articular sepsis, 107
Vuillemin, L., *see* Caix, J., 62
Warner, P.J., *see* Downs, M.E.A., 66
Wasserman, A.J., *see* Doillon, C.J., 91
Watler, P.K., Cholakis, C.H. and Sefton, M.V., Water content and compression modulus of some heparin–PVA hydrogels, 150
Whateley, T.L., *see* Lewis, D., 71
Whitley, J.Q. and Kusy, R.P., Creep rupture of polypropylene sutures as a function of diameter, radiation dose, and temperature, 538
Williams, D.F., *see* Mason, E.A., 466, 550
see Williams, R.L., 206
Williams, R.L. and Williams, D.F., Albumin adsorption on metal surfaces, 206
Williams, R.L., Brown, S.A. and Merritt, K., Electrochemical studies on the influence of proteins on the corrosion of implant alloys, 181
Woffindin, C. and Hoenich, N.A., Blood–membrane interactions during haemodialysis with cellulose and synthetic membranes, 53
Wusteman, F.S., *see* Hale, G., 376
Yen, H., *see* Andrade, J.D., 76
Yui, N., Kataoka, K., Sakurai, Y., Aoki, T., Sanui, K. and Ogata, N., *In vitro* and *in vivo* studies on antithrombogenicity of poly(propylene oxide) segmented nylon 610 in relation to its crystalline–amorphous microstructure, 225
Ziats, N.P., Miller, K.M. and Anderson, J.M., *In vitro* and *in vivo* interactions of cells with biomaterials, 5

Subject Index

Acrylamide gel
  enzymes, immobilization; 168
Activation
  drug delivery, swelling; 489
Adhesion
  bio-active glasses, bone; 449
Albumin
  protein adsorption, metals; 206
  protein adsorption, polyurethanes; 36
Alloy
  alumina, wear particles; 442
Alumina
  alloy, wear particles; 442
Animal model
  percutaneous implants, histology; 268
Anti-thrombogenicity
  platelets, heparinization; 235
Antibodies
  biosensors, reflectance; 58
  complement activation, serum; 514
  hydrogels, cell separation; 218
Anticoagulant
  protein adsorption, polystyrenes; 405
Apatite composites
  dental materials, mechanical properties; 345
Assessment
  cell adhesion, organ culture; 155
  titanium, bone regeneration; 295
  wound dressing, water vapour permeance; 263
Bacterial
  calcifications, percutaneous implants; 393
  carbon, percutaneous implants; 398
Bacterial adhesion
  collagen, sepsis; 107
  colonization, surgical biomaterials; 285
Bio-active glasses
  bone, adhesion; 449
  microstructure, biocompatibility; 528
Biocompatibility
  bio-active glasses, microstructure; 528
  block copolymers, surfaces; 383
  carbon, vascular prostheses; 80
  catheters, inflammation; 253
  cell–polymer interactions, macrophages; 5
  cell–polymer interactions, phagocytes; 14
  titanium, PTFE; 86
  titanium, rats; 547
Biodegradation
  drug delivery, hollow fibres; 116
  hydrogels, drug delivery; 435
Biointeractions '87
  Editorial, Surfaces; 3
Bioprostheses
  patella, host–implant reaction; 173
Biosensors
  DNA, enzymes; 66
  haemocompatibility, complement activation; 76
  reflectance, antibodies; 58
Block copolymers
  biocompatibility, surfaces; 383
  gas permeability, microstructure; 349
  protein adsorption, platelets; 138
Bone
  bio-active glasses, adhesion; 449
  cell–polymer interactions, protein adsorption; 24
  CFRE implants, fracture healing; 198
  dielectric properties, measurement; 192
  microstructure, fish; 319
  percutaneous implants, host–implant reaction; 195
Bone plates
  titanium, maxillofacial surgery; 310
Bone regeneration
  titanium, assessment; 295
Book Reviews
  Advances in Biomaterials, S.M. Lee; 468
  Bio-Incompatibility and Dialysis, M.E. De Broe *et al.*; 467
  Biomaterials and Clinical Applications, A. Pizzoferrato *et al.*; 467
  Ceramics in Clinical Applications, A. Ravaglioli; 550
  Handbook of Materials Evaluation, A.F. von Recum; 550
  Perspectives on Biomaterials, O.C.C. Lin *et al.*; 550
  Polymers in Medicine II, Biomedical and Pharmaceutical Applications, E. Chiellini *et al.*; 468
Cadmium
  collagen, molecular mobility; 187
Calcifications
  percutaneous implants, bacterial; 393
Carbon
  biocompatibility, vascular prostheses; 80
  wear, composites; 328
  percutaneous implants, bacterial; 398
Catheters
  biocompatibility, inflammation; 253
Cell adhesion
  cell–polymer interactions, fibronectin; 121
  hydrogels, measurement; 471
  organ culture, assessment; 155
  silicon, prostheses; 101
  titanium, porous coatings; 302
  vascular prostheses, endothelium; 97
Cell cultivation
  collagen, epidermis; 91
Cell separation
  antibodies, hydrogels; 218
Cell spreading
  cell–polymer interactions, serum; 525
Cell–polymer interactions
  biocompatibility, macrophages; 5
  biocompatibility, phagocytes; 14
  bone, protein adsorption; 24
  cell adhesion, fibronectin; 121
  platelets, collagen; 133
  serum, cell spreading; 525
CFRE implants
  bone, fracture healing; 198
Characterization
  heparin-like materials, thrombin; 145
  titanium, histology; 277
Chitosan
  microstructure, tissue repair; 247
Collagen
  bacterial adhesion, sepsis; 107
  cadmium, molecular mobility; 187
  cell cultivation, epidermis; 91
  platelets, cell–polymer interactions; 133
Colonization
  bacterial adhesion, surgical biomaterials; 285
Complement activation
  biosensors, haemocompatibility; 76
  haemocompatibility, dialysis; 30, 53
  macrophages, receptors; 241
  serum, antibodies; 514
Composites
  carbon, wear; 328
Conference Reports
  1988 Western Winter Workshop on Tissue Engineering, USA; 379
  Materials Technology and Profit, Australia; 290
  SERC Workshop on the Development of Diagnostic Equipment for use in Medicine, London; 550
  SERC Workshop on the Development of Orthopaedic Implants for use in Medicine, London; 466
Copolymers
  Flory parameter, hydrophilic; 419
Creep
  dental materials, dental amalgam; 213
  sutures, radiation; 538
Cross-linking
  hydrogels, radiation; 508
  membranes, radiation; 500
Dental amalgam
  dental materials, creep; 213
  permeability; dental materials; 533
  toxicity, selenium; 339
Dental materials
  dental amalgam, creep; 213
  dental amalgam, permeability; 533
  glass–ionomer cement, diffusion; 454
  mechanical properties, apatite composites; 345
  tissue sealants, dye penetration; 460
Dialysis
  haemocompatibility, complement activation, 30, 53
Dielectric properties
  bone, measurement; 192
Diffusion
  glass–ionomer cement, dental materials; 454
  solubility, polymers; 162
DNA
  biosensors, enzymes; 66
Drug delivery
  biodegradation, hydrogels; 435
  hollow fibres, biodegradation; 116
  hydrogels, kinetics; 363
  microspheres, kinetics; 482
  microspheres, polymers; 111
  microstructure, hydrogels; 257
  polymers, erodible; 424
  swelling, activation; 489
Dye penetration
  dental materials, tissue sealants; 460
Editorial
  Biointeractions '87, Surfaces; 3
Elastin
  fibrin, synthesis; 519
Embolization
  hydrogels, microspheres; 367
Endothelium
  vascular prostheses, cell adhesion; 97
Enzymes
  biosensors, DNA; 66
  immobilization, acrylamide gel; 168
  protein adsorption, surfaces; 71
Epidermis
  cell cultivation, collagen; 91
Erodible
  drug delivery, polymers; 424
Fibrin
  elastin, synthesis; 519
Fibrinogen
  protein adsorption, polystyrene latex; 203
Fibronectin
  cell adhesion, cell–polymer interactions; 121
Fish
  microstructure, bone; 319
Flory parameter
  hydrophilic, copolymers; 419
Fracture healing
  CFRE implants, bone; 198
Gas permeability
  block copolymers, microstructure; 349
Glass–ionomer cement
  diffusion, dental materials; 454
Haemocompatibility
  biosensors, complement activation; 76
  dialysis, complement activation; 30, 53
  heparin-like materials, thrombin; 62
  protein adsorption, platelets; 126
Heparin
  hydrogels, thrombogenicity; 150
Heparin-like materials
  haemocompatibility, thrombin; 62
  thrombin, characterization; 145
  thrombin, kinetics; 413

thrombin, reaction mechanism; 230
Heparinization
platelets, anti-thrombogenicity; 235
Hips
histology, prostheses; 314
Histology
hips, prostheses; 314
percutaneous implants, animal model; 268
polymers, Sudan black B; 463
titanium, characterization; 277
Hollow fibres
drug delivery, biodegradation; 116
Host-implant reaction
bioprostheses, patella; 173
bone, percutaneous implants; 195
Hydrogels
antibodies, cell separation; 218
biodegradation, drug delivery; 435
cell adhesion, measurement; 471
cross-linking, radiation; 500
drug delivery, kinetics; 363
drug delivery, microstructure; 257
irritation, residual products; 273, 372
microspheres, embolization; 367
thrombogenicity, heparin; 150
water, thermal analysis; 494
Hydrophilic
Flory parameter, copolymers; 419
Immobilization
enzymes, acrylamide gel; 168
prostaglandin, polymers; 429
Inflammation
biocompatibility, catheters; 253
Irritation
hydrogels, residual products; 273, 372
Kinetics
drug delivery, hydrogels; 363
heparin-like materials, thrombin; 413
microspheres, drug delivery; 482
Macrophages
biocompatibility, cell-polymer interactions; 5
microspheres, phagocytosis; 356
receptors, complement activation; 241
Maxillofacial surgery
titanium, bone plates; 310
Measurement
bone, dielectric properties; 192
hydrogels, cell adhesion; 471
Mechanical properties
dental materials, apatite composites; 345
Membranes
cross-linking, radiation; 500
Metals
protein adsorption, albumin; 206
Microspheres
drug delivery, kinetics; 482
drug delivery, polymers; 111
hydrogels, embolization; 367
macrophages, phagocytosis; 356
Microstructure
bio-active glasses, biocompatibility; 528
block copolymers, gas permeability; 349
bone, fish; 319
chitosan, tissue repair; 247
drug delivery, hydrogels; 257
thrombogenicity, nylon; 225
Molecular mobility
collagen, cadmium; 187
Nylon
thrombogenicity, microstructure; 225
vascular surfaces, simulation; 376
Organ culture
cell adhesion, assessment; 155
Patella
bioprostheses, host-implant reaction; 173
Percutaneous implants
animal model, histology; 268
bone, host-implant reaction; 195
calcifications, bacterial; 393
carbon, bacterial; 398
Permeability
dental amalgam, dental materials; 533
Phagocytes
cell-polymer interactions biocompatibility; 14
Phagocytosis
microspheres, macrophages; 356
Platelets
anti-thrombogenicity, heparinization; 235
collagen, cell-polymer interactions; 133
haemocompatibility, protein adsorption; 126
protein adsorption, block copolymers; 138
Polyester fibres
sterilization, tensile properties; 335
Polymers
drug delivery, erodible; 424
drug delivery, microspheres; 111
histology, Sudan black B; 463
immobilization, prostaglandin; 429
solubility, diffusion; 162
Polystyrene latex
protein adsorption, fibrinogen; 203
Polystyrenes
protein adsorption, anticoagulant; 405
protein adsorption, thrombin; 47
Polyurethanes
protein adsorption, albumin; 36
Porous coatings
titanium, cell adhesion; 302
Prostaglandin
immobilization, polymers; 429
Prostheses
cell adhesion, silicon; 101
histology, hips; 314
Protein adsorption
bone, cell-polymer interactions; 24
enzymes, surfaces; 71
fibrinogen, polystyrene latex; 203
haemocompatibility, platelets; 126
metals, albumin; 206
platelets, block copolymers; 138
polystyrenes, anticoagulant; 405
polystyrenes, thrombin; 47
polyurethanes, albumin; 36
PTFE
sutures, tensile properties; 324, 457
titanium, biocompatibility; 86
Radiation
creep, sutures; 538
hydrogels, cross-linking; 508
membranes, cross-linking; 500
Rats
titanium, biocompatibility; 547
Reaction mechanism
heparin-like materials, thrombin; 230
Receptors
Macrophages, complement activation; 241
Reflectance
biosensors, antibodies; 58
Residual products
hydrogels, irritation; 273
hydrogels, irritation; 372
Selenium
dental amalgam, toxicity; 339
Sepsis
collagen, bacterial adhesion; 107
Serum
cell-polymer interactions; cell spreading; 525
complement activation, antibodies; 514
Sharpness
surgical needles, sutures; 281
Silicon
cell adhesion, prostheses; 101
Simulation
nylon, vascular surfaces; 376
Solubility
diffusion, polymers; 162
Sterilization
polyester fibres, tensile properties, 335
Sudan black B
histology, polymers, 463
Surfaces
block copolymers, biocompatibility; 383
Editorial, Biointeractions '87; 3
protein adsorption, enzymes; 71
Surgical biomaterials
bacterial adhesion, colonization; 285
Surgical needles
sutures, sharpness; 281
Sutures
creep, radiation; 538
surgical needles, sharpness; 281
tensile properties, PTFE; 324, 457
Swelling
drug delivery, activation; 489
Synthesis
fibrin, elastin; 519
Tensile properties
polyester fibres, sterilization; 335
PTFE, sutures; 324, 457
Thermal analysis
hydrogels, water; 494
Thrombin
haemocompatibility, heparin-like materials; 62
heparin-like materials, characterization; 145
heparin-like materials; kinetics; 413
heparin-like materials, reaction mechanism; 230
protein adsorption, polystyrenes; 47
Thrombogenicity
hydrogels, heparin; 150
nylon, microstructure; 225
Tissue repair
chitosan, microstructure; 247
Tissue sealants
dental materials, dye penetration; 460
Titanium
biocompatibility, rats; 547
bone plates, maxillofacial surgery; 310
bone regeneration, assessment; 295
cell adhesion, porous coatings; 302
characterization, histology; 277
PTFE, biocompatibility; 86
Toxicity
dental amalgam, selenium; 339
Vascular prostheses
carbon, biocompatibility; 80
endothelium, cell adhesion; 97
Vascular surfaces
nylon, simulation; 376
Water
hydrogels, thermal analysis; 494
Water vapour permeance
wound dressing, assessment; 263
Wear
carbon, composites; 328
Wear particles
alumina, alloy; 442
Wound dressing
water vapour permeance, assessment; 263